WATER OVERFLOW
1761 | 33-P1-EF-004
D-3307

P-33013-4"-XA1PB-N -NT

FREE DRAINING

WATER OVERFLOW
1913 | 33-P1-EF-023
D-3305

P-33025-4"-XA1PB-PP25.0 mm-NT

FREE DRAINING

HAP
P-33024-10"-XA1PB-N -NT
33-P1-EF-024 | 1876
E-3307

EQUALIZING LINE (DO NOT POCKET)

HAP
P-33202-4"-XA1PB-N -NT

OILY CONDENSATE
1930 | 33-P1-EF-019
PRD-33013

HAP
P-33324-10"-XA1PB-N -NT
SLOPE 1000.0 mm/500.0 m

MIN. FLOW BYPASS

33-P1-EF-020 | 1963
FC-33041

33-P1-EF-022 | 6407
FC-33634

HS 33011A

LDA 33009A H

LI 33638

I 33006

HS 33026 | LC 33026 IPL H L

LSHH 33009 | LC 33009 IPL H L

DETAIL "O1"

LI 33009

LT 33009 FF 3" D/P

LG 33008

LT 33638 FF D/P

24" MW

33-P1-EF-132 | 5679
LY-33009

LT 33010 RADAR INT.

DC-30

OVER RIDE
33-P1-EF-037 | 6528
FC-33036

LI 33010 H | LG 33009 INT.

3"

LI 33012X

TI 33046 | TT 33046 FF | TW 33046 | PI 33164 RTD

LI 33012Y | ESD-6 33301 2OO2 HH

HHLL=2925.0 mm
HLL=2700.0 mm
NLL=2050.0 mm
LLL=750.0 mm
LLLL=400.0 mm

LT 33012Y D/P | LT 33012X D/P DETAIL "O1"

UC 2" 2"

10"

IHHLL=400.0MM
IHLL=300.0MM

3" 3"

3"x2"

LI 33028X | LI 33028Y | LI 33028Z

ESD-6 33312 2OO3

DETAIL "O2"

LT 33028X | LT 33028Y | LT 33028Z | LT 33011 RADAR INT.

TI 33637 | TW 33637 | CSO | N1 XA1PB

1"x0.75"

HAP
P-33700-1"-XA1PB-N -NT

7 D-3302
Trim: TR-33017-XA1PB HAP-HC

LG 33010 INT.

IHHLL=2490.0 mm
IHLL=2390.0 mm
INLL=2290.0 mm
ILLL=1000.0 mm
ILLLL=900.0 mm

24" MW

HAP P-33394-0.75"-N1-N -NT

HAP P-33041-4"-N1-N -NT

6" 18"x14" HT

18" 2"x1.5" 2" 2" 1.5 1.5 2"x1.5

MIN BTL=3500MM

UC

2" 2"

FREE DRAINING (HORIZONTAL)

HAP
P-33023-14"-XA1PB-N -NT
33-P1-EF-039 | 1775
DM/WATER

VOC
P-33030-12"-XA1PB-N -NT
1801 | 33-P1-EF-019
PROCESS CONDENSATE
P-3302A/B

EMULSION DRAWOFF

20"x12"

NNF

MIN FOR PIPING

GRADE

SSI

20"

2" 2"

DC-30 DC-30 DC-30 DC-30

D-3302
DM/WATER SEPARATOR

DIMENSION: 4500.0 mm ID X 13200.0 mm T-T
DESIGN P AND T: 1.07 kg/cm^2g AND 85.00 C
MINIMUM P AT T: FV EXTERNAL AT 85.00 C
MATERIAL OF CONSTRUCTION: CS
INSULATION TYPE AND THICK: HC - 38.0 mm 7

FF | FY 33035 | FV 33035 | XA1PB N1 | 4"x2" | 4"x2" | CSO | FO 2" | CSO | 2" | XA1PB N1

HAP
P-33229-4"-XA1PB-PP25.0 mm-NT
1000.0 mm/500.0 m SLOPE
DM
33-P1-EF-037 | 13577
PSE-33043/44

VOC
P-33395-0.75"-XA1PB-N -NT
VENT
33-P1-EF-019 | 9720
P-3302A/B

(DO NOT POCKET)

HAP
P-33710-8"-XA1PB-PP38.0 mm-NT
1000.0 mm/500.0 m SLOPE

(DO NOT POCKET)

HAP
P-33710-8"-XA1PB-PP38.0 mm-NT
DM
33-P1-EF-036 | 7780
PRD-33033

HAP
P-33201-3"-XA1PB-N -NT
1000.0 mm/500.0 m SLOPE
DM
33-P1-EF-035 | 6456
PSE-33034

HAP
P-33167-1.5"-XA1PB-PP25.0 mm-NT
1000.0 mm/500.0 m SLOPE
DM
33-P1-EF-037 | 1781
PSE-33045

HAP
P-33918 -2"-XA1PB-N -NT
OILY WATER
33-P1-EF-137 | 8984
X-3308

ESD-6 33307

IPL FC 33035 L

PSLL 33313 AUTOSTART

PI 33313 L LL

CWR-33041-0.75"-A-N -NT
CWR
3458
33-P1-EF-552

HAP
P-33890-0.75"-N1-N -NT

HAP
P-33169-0.75"-N1-N -NT

SC-3-3309

CWS-33041-0.75"-A-N -NT
CWS
3457
33-P1-EF-552

PT 33313 FF

FT 33035 FF

FE 33035

MIN

8"x4"

IPL PI 33043 5 FF | PT 33043 FF

HAP
P-33041-8"-N1-N -NT
DM FEED
1970 | 33-P1-EF-035
E-3315

0.75" XA1PB N1 MIN

8 DETAIL "B" ESD-6, 33307

EBV 5

EXV 33067 FC 10" TSO FP

CSO DC-20 CPI HD-

PI 33100 VC-20 8"x6"

600#RF 6" 10" 600# RF

SP SP-33702 PI 33497

TRIP ESD-6 33307

HS 33034 S/S

HOA S/S

RL 33034 YL 33034 H/A

9 P-3301A

PI 33101 VC-20 8"x6"

SP SP-33702 PI 33499 600# RF 6" 10" 600# RF

TRIP ESD-6 33307

HS 33035 S/S

HOA S/S

RL 33035 YL 33035 H/A

9 P-3301B

DCS INTERLOCK 33006
PAR REACTOR BYPASS
R-3303
P&ID#: JCP-33-P1-EF-018/037

I 33006

EFFECT
OPEN PAR REACTOR R-3303 BYPASS MV-23981

ITEM	CAUSE	TAG NUMBER		TRIP	TIME DELAY
1.	HIGH HC LEVEL ON D-3302 DM/WATER SEPARATOR	LSHH-33009	X	85	

15 6 P-3301A/ B
DM PUMP

DESIGN CAP: m3/hr
DIFF. HEAD: 149.0 m
CASE MATL: CS
IMPELLER MATL: 12% Chrome
MOTOR: 15.00 kW
MIN FLOW: m3/hr

NOTES

1. LG-33010 TO BE VISIBLE FROM VALVE.
2. EQUALIZATION LINE SIZED FOR PRD-33013 DISCHARGE.
3. SIZED FOR FIRE CASE OF D-3302, D-3303.
4. VALVE PACKING TO BE SUITABLE FOR VACUUM SERVICE.
5. LOCATE HS-33034/35 MINIMUM OF 15 METERS FROM PUMP P-3301A/B.
6. ELEVATION OF 3500MM IS FIXED. P-3301A/B AND P-3302A/B TO SATISFY NPSH REQUIREMENTS AT DRUM ELEVATION OF 3500MM.
7. FIREPROOF INSULATION TO BE PROVIDED.
8. CLOSURE OF EXV-33067 WILL TRIP P-3301A/B AND PREVENT START.
9. HYDROCARBON DETECTORS REQUIRED IN VICINITY OF PUMPS.
10. PUMP MINIMUM FLOW LINE BASED ON PUMP VENDOR MINIMUM FLOW REQUIREMENT DATA.
11. LOCATE VALVE AT GRADE.
12. PI-33164 TO BE ACCESSIBLE.
13. DELETED.
14. DELETED.
15. SEE DWG JCP-00-P1-EF-019/028 FOR SEAL DETAILS, PLAN 11/53A.
16. LSHH-33009 WILL ACTIVATE WHEN LC-33099 PROCESS VALUE REACH TO 85% OF D-3302.

REV.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.	REFERENCE DRAWING
5	18.Apr.-2021	REVISED AS PER MOC JCP-P-9036	MRH	CSK	MAT	FOR NEW JCP LEGEND AND SYMBOLS SEE DRAWINGS:
4	02.May.-2017	REVISED AS PER MOC JCP-P-4762	PTB	RAC	KMN	JCP-00-P1-EF-001 THRU JCP-00-P1-EF-039
3	27.Apr.-2016	REVISED FOR IPL IDENTIFICATION	PTB	JRB	KMN	FOR EXISTING SCP LEGEND AND SYMBOLS SEE DRAWINGS:
2	12.Jan.-2015	REVISED AS PER MOC JCP-P-1103.	RAC	SSK	KMN	JCP-00-D-00-00001 THRU JCP-00-D-00-00023
1	07.May.-2014	AS PER MOC JCP-P-1176	MRH	A.O	KMN	FOR EXISTING PORT LEGEND AND SYMBOLS SEE DRAWINGS:
00	30.Apr.-2008	AS BUILT	S.K	H.K	H.K	JCP-00-D-00-00001P THRU JCP-00-D-00-00012P

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EPC CONTRACTOR JGC

MANAGING CONTRACTOR PARSONS E&C

JCP

	INITIAL	DATE
DRAWN	PEC	05.Feb.-2003
CHECKED		
CONTRACTOR APPROVAL	RRC	
	JM	
JCP APPROVAL	HU	
SCP REVISION		

TITLE
PIPING AND INSTRUMENT DIAGRAM
DM/WATER SEPARATOR

SCALE	PROJECT NO.	CONTRACT NO. / WORK ORDER NO.	DWG. NO.	REV
NONE	156217	D-033-1225-018	JCP-33-P1-EF-018	5

0-3515-2

FILE NAME : JCP-33-P1-EF-018

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